

Listing of Claims

1. (Currently Amended) A method for determining ~~[[the]]~~ a resolution of blood glucose, ~~comprises~~ comprising:

obtaining ~~[[a]]~~ an ~~analog~~ analog signal source from ~~[[the]]~~ a blood glucose solution being ~~transferred into~~ applied to ~~[[the]]~~ an amplifier circuit which ~~comprising~~ includes ~~a resistance~~, a referenced reference resistance and ~~a referenced voltage~~;

~~transforming~~ said ~~analog~~ analog signal source ~~to be~~ into a digital signal;

~~treating~~ said digital signal;

~~transferring out~~ transmitting said digital signal with a rising curve which would get to obtain ~~[[a]]~~ an approximate local maximum peak value of said rising curve; and

~~calculating~~ determining said resolution of blood glucose according to said ~~resistance~~, said ~~referenced resistance~~, said ~~referenced voltage~~ and said approximate local maximum peak value.

2. (Currently Amended) The method according to claim 1, wherein said ~~analog~~ analog signal source ~~coming is generated from a chemical reaction caused by placing at least in part, in response to application of the blood glucose solution reacts on~~ is generated from a chemical reaction caused by placing at least in part, in response to application of the blood glucose solution reacts on ~~[[the]]~~ a test strip having a catalyst.

3. (Currently Amended) The method according to claim 2, wherein said analog signal source is generated at least in part, on chemical reaction comprising an oxidation reduction reaction occurring in response to said application of said test strip.

4. (Currently Amended) The method ~~accordance with~~ according to claim 1, wherein said transforming said ~~analog~~ analog signal source ~~comprising~~ includes ~~transferring~~ transmitting said ~~analog~~ analog signal source through ~~[[a]]~~ an ~~analog~~ analog front end (AFE)

5. (Currently Amended) The method according to claim 1, wherein said peak approximate local maximum value being the difference between ~~[[the]]~~ a first time (t_1) and ~~[[the]]~~ an initial time (t_0) and

said difference being larger than zero.

6. (Currently Amended) The method according to claim 1, wherein and further comprising:

determining [[a]] an average peak value calculating the of a plurality of said peak approximate local maximum value values after a pre-setting sampling time.

7. (Currently Amended) The method according to claim 1, wherein and further comprising:

providing a mapping table of said an outputted voltage and a [[said]] plurality of peak value approximate local maximum values from [[the]] a plurality of said rising curves.

8. (Currently Amended) A method for determining the resolution of blood glucose, ~~comprises~~ comprising:

providing [[the]] a blood glucose solution for reacts reaction on [[the]] a test strip to product produce [[a]] an analogy analog signal source;

transferring transmitting said analogy analog signal source into a measuring circuit;

transforming said analogy analog signal source to be into a digital signal;

transferring out outputting said digital signal with a rising curve;

calculating determining [[a]] an average peak value at [[on]] a peak an approximate local maximum point of said rising curve after a pre-setting sampling time; and

calculating determining said resolution of blood glucose according to said average peak value.

9. (Currently Amended) The method according to claim 8, wherein which said test strip containing includes a catalyst.

10. (Currently Amended) The method ~~accordance with~~ according to claim 8, ~~wherein the method of~~ and further comprising:

producing said analogy analog signal source comprising at least in part in response to an oxidation reduction reaction.

11. (Currently Amended) The method ~~accordance with~~ according to claim 8, wherein said measuring circuit ~~comprising includes a resistance, a reference resistance and a reference voltage.~~
12. (Currently Amended) The method ~~accordance with~~ according to claim 8, wherein said transforming said ~~analog~~ analog signal source ~~comprising includes transferring~~ transmitting said ~~analog~~ analog signal source through ~~[[a]] an analog~~ an analog front end (AFE).
13. (Currently Amended) The method according to claim 8, wherein ~~and further~~ and further comprising ~~calculating~~ determining a peak an approximate local maximum value of said rising curve.
14. (Currently Amended) The method according to claim 13, wherein said ~~peak~~ approximate local maximum value being ~~[[the]] a~~ [[the]] a difference between ~~[[the]] a~~ [[the]] a first time (t_1) and ~~[[the]] an~~ [[the]] an initial time (t_0) and said difference being larger than zero.
15. (Currently Amended) The method according to claim ~~[[8]]~~ 11, wherein ~~calculating of~~ is determined at said resolution of blood glucose ~~according to said average peak value further comprising according to~~ is determined at least in part based on said ~~resistance, said reference resistance and said reference voltage.~~
16. (Currently Amended) A method for determining the resolution of blood glucose, ~~comprises~~ comprising:
- providing ~~[[the]] a~~ [[the]] a blood glucose solution ~~for reacts~~ reaction on ~~[[the]] a~~ [[the]] a test strip having an enzyme to ~~product~~ produce ~~[[a]] an analog~~ [[a]] an analog signal source;
 - ~~transferring~~ transmitting said ~~analog~~ analog signal source into a measurement circuit;
 - transforming said ~~analog~~ analog signal source ~~to be into~~ into a digital signal;
 - ~~transferring out~~ outputting said digital signal with a rising curve;
 - ~~calculating~~ determining a peak an approximate local maximum value of said rising curve; and

making a mapping table of said ~~peak~~ approximate local maximum value and ~~[[a]]~~ an outputted voltage.

17. (Currently Amended) The method ~~as recited with~~ according to claim 16, wherein the method of and further comprising:

producing said ~~analog~~ analog signal source ~~comprising at least in part in response to an~~ oxidation reduction reaction.

18. (Currently Amended) The method ~~as recited with~~ according to claim 16, wherein said transforming said ~~analog~~ analog signal source ~~comprising transferring further comprises transmitting~~ said ~~analog~~ analog signal source through ~~[[a]]~~ an ~~analog~~ analog front end (AFE).